CLAIMS

- 1. An offshore flexible pipe comprising an unsealed flexible inner layer outer sealing layers, in which the sealing layers comprise, in succession:
- an inner layer formed from at least one thermoplastic polymer (A);
 - optionally, a coextrusion tie layer;
 - a polyolefin layer.
- 2. A pipe according to Claim 1, which additionally comprises, on the same side as the polyolefin layer, in succession:
 - optionally, a coextrusion tie layer;
- an outer layer formed from at least one 15 thermoplastic polymer (B).
- Pipes according to Claim 1 or 2, in which the polymers (A) and (B) are chosen from polyamides, blends of a polyamide and a polyolefin having a polyamide 20 matrix, copolymers having polyamide and polyether blocks, blends of polyamides of copolymers having polyamide blocks and polyether blocks, polyetheresters and polyurethanes.
- 25 Pipes according to Claim in which the 3, polyamides are chosen from PA-11, PA-12, aliphatic polyamides resulting from the condensation aliphatic diamine having from 6 to 12 carbon atoms and of an aliphatic diacid having from 9 to 12 carbon atoms 30 and 11/12 copolyamides having either more than 90% of nylon-11 units or more than 90% of nylon-12 units.
 - 5. Pipes according to Claim 4, in which the polyamide is PA-11 or PA-12 and contains a plasticizer.

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6. Pipes according to any one of the preceding claims, in which the tie is a functionalized polyolefin carrying a carboxylic acid or carboxylic acid anhydride

functional group, optionally blended with an unfunctionalized polyolefin.

- 7. Pipes according to any one of the preceding claims, in which the polyolefin of the polyolefin layer is high-density polyethylene.
- 8. Use of the flexible pipes according to any one of the preceding claims for transporting fluids in offshore oil and gas extraction fields.